

What is claimed is:

1. A reflection-type color liquid crystal display apparatus comprising:

5 a substrate on which a liquid crystal driving element is formed;

an opposite substrate which is opposite to said driving element formation substrate;

a liquid crystal sandwiched between said driving element formation substrate and said opposite substrate;

10 a color filter provided on the driving element formation substrate; and

light scattering mechanism provided on the liquid crystal side surface of the opposite substrate.

2. The reflection-type color liquid crystal display apparatus according to claim 1, wherein

15 said opposite substrate has a transparent insulation substrate, and

20 said light scattering mechanism comprises uneven portions formed on the surface of the liquid crystal side of said transparent insulation substrate.

3. The reflection-type color liquid crystal display apparatus according to claim 2, wherein

25 said light scattering mechanism comprises a flattened film formed to cover the uneven portion formed on the surface of the transparent insulation substrate.

4. The reflection-type color liquid crystal display apparatus according to claim 1, wherein

said opposite substrate has a transparent insulation

substrate, and

said light scattering mechanism comprises an uneven insulation film formed from outside on the surface of the liquid crystal of the transparent insulation substrate.

- 5        5. The reflection-type color liquid crystal display apparatus according to claim 4, wherein

      said light scattering mechanism comprises a scattering auxiliary film formed on the uneven insulation film and having a refraction index different from the uneven  
10 insulation film.

6. The reflection-type color liquid crystal display apparatus according to claim 5, wherein

      said refraction index of the uneven insulation film is larger than that of the scattering auxiliary film.

- 15       7. The reflection-type color liquid crystal display apparatus according to claim 4, wherein

      said light scattering mechanism comprises a flattened film formed to cover the uneven insulation film.

8. The reflection-type color liquid crystal display  
20 apparatus according to claim 4, wherein

      said light scattering mechanism comprises a flattened film and scattering auxiliary film formed to cover the uneven insulation film.

9. A method for manufacturing a reflection-type color  
25 liquid crystal display apparatus, wherein a liquid crystal is sandwiched between a liquid crystal driving element formation substrate and an opposite substrate, and a color filter is provided on the liquid crystal driving element

formation substrate; the method comprising the steps of:

forming a liquid crystal driving element on a first transparent insulation film;

then, forming at least a color filter on the transparent insulation film to form a liquid crystal driving element formation substrate;

forming an opposite substrate provided with light scattering mechanism on a surface of a second transparent insulation substrate; and

sandwiching a liquid crystal between the liquid crystal driving element substrate and the opposite substrate by arranging the opposite substrate such that the light scattering mechanism of the opposite substrate is positioned on the side of the liquid crystal.

10. The method for manufacturing the reflection type color liquid crystal display apparatus according to claim 9, wherein the light scattering mechanism is provided so as to include the uneven portion.

11. The method for manufacturing the reflection-type color liquid crystal display apparatus according to claim 10, wherein the uneven portion is formed by the process method including the sand blast method and the photo-etching method.

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